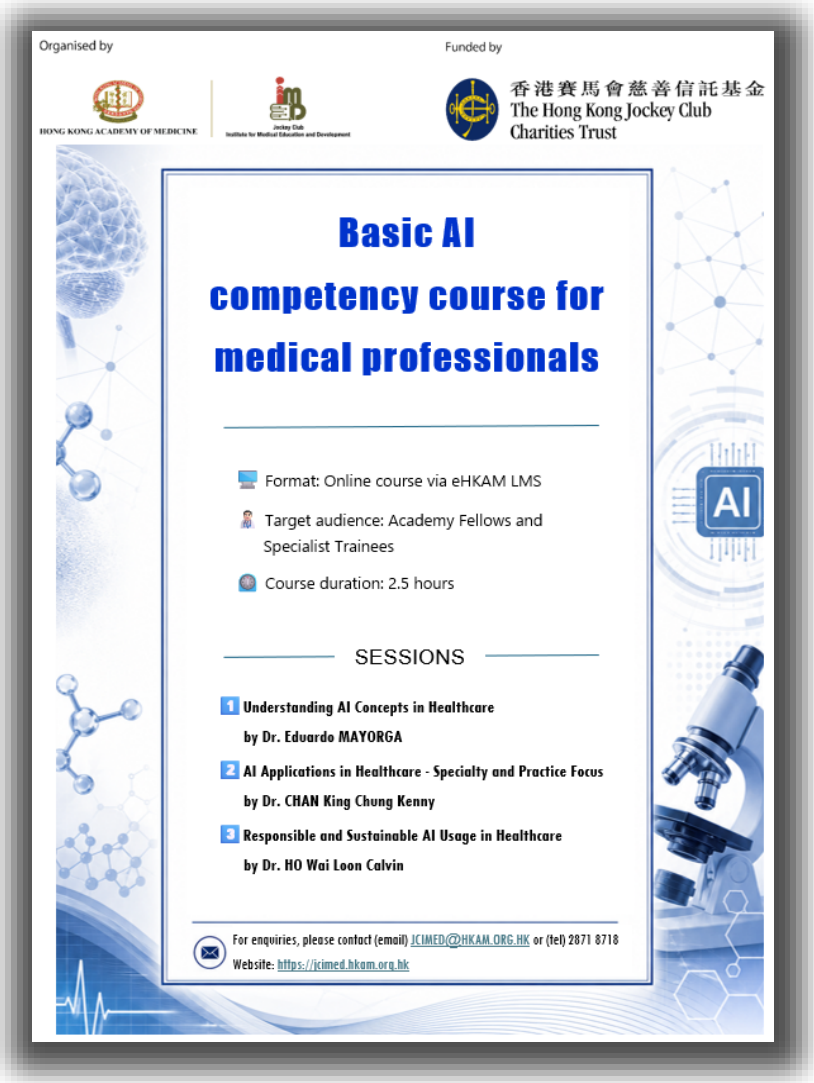
Basic AI Competency Course for Medical Professionals



- **Learning Platform:**
  eHKAM LMS platform
- **Syllabus Structure:**
  3 key specialized modules
- **Course Duration:**
  2.5 hours
- **Target Audience:**
  Academic Fellows and Specialist Trainees
- **Learning Model:**
  Self-paced, MCQ for each module

- **Broaden AI Comprehension:**
  Deepen understanding of core and advanced artificial intelligence concepts relevant to modern clinical healthcare and medical pedagogy.
- **Evaluate Real-World Clinical Tools:**
  Critically analyze current AI applications across medical specialties and clinical operational pipelines, with strong relevance to educational settings.
- **Cultivate Safe & Ethical Practices:**
  Advocate for secure, ethical, compliant, and sustainable usage of emerging AI technologies among medical professionals.
- **Govern Risk & Professional Liability:**
  Familiarize post-graduate clinicians with critical regulatory, safety, accountability, and liability issues linked to deploying AI in daily medicine.

Basic AI Competency Course for Medical Professionals

Three Core Sessions Led by Expert Faculty

SESSION 1

Understanding AI Concepts

FACULTY SPEAKER:

Dr. Eduardo MAYORGA, MD

Hospital Universitario Austral

Professor of ophthalmology; international specialist in online medical education and e-learning for CME across 36 countries.

MODULE OBJECTIVES:

- Explain core AI concepts, medical definitions, evolution, and clinical necessity.
- Understand clinical explainability, interpretability, and Software as a Medical Device (SaMD).
- Evaluate clinical pedagogical and ethical considerations in simulation.

SESSION 2

Specialty & Practice Focus

FACULTY SPEAKER:

Dr. CHAN Kenny King Chung

CUHK Dept of Anaesthesia & ICU

AI consultant, Vector Scholar with a Master of Management in AI (MMAI); expert in clinical LLM governance.

MODULE OBJECTIVES:

- Differentiate modern clinical AI tools applied in various hospital specialties.
- Discuss practical implementation barriers and specialty-specific clinical challenges.
- Evaluate clinical outcome modeling, LLM prompt engineering, and risk limits.

SESSION 3

Responsible & Sustainable AI

FACULTY SPEAKER:

Dr. HO Calvin Wai-Loon

Monash University Faculty of Law

Doctor of Juridical Science (JSD, Cornell); expert in digital health governance, bioethics, and health law.

MODULE OBJECTIVES:

- Evaluate regulatory, professional liability, and safety risks of healthcare AI.
- Apply robust ethical, legal, and sustainability guidelines to clinical workflows.
- Audit and critically evaluate AI-generated information for clinical safety.